A Divis
Les Gaskell En

SIMPLE SIMON
Electronic Kits
. Hawthorne Blvd., Hawthorne, CA. 90250

hone:
) 675-2335

TV DECODER KIT MODEL 7 + 11
AMERICA'S NEWEST ELECTRONIC HOBBY KIT

(SINE WAVE ENCODING SYSTEM)

L. A. Chan. 52; Chicago Chn. 44; Detroit Chan. 20; Florida Chan. 51, etc.

DELUXE VIDEO & SOUND, COMPLETE KIT

includes

ALL COMPONENTS -- HARDWARE, SPEAKER BOX, ANTENNA SWITCHING NETWORK & WIRE, JUST ASSEMBLE FOLLOWING SIMPLE SIMON'S INSTRUCTIONS. NOTHING ELSE TO BUY EXCEPT UHF ANTENNA SYSTEM

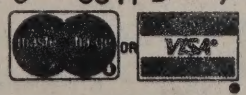
7 + 11 KIT - Complete $139.00

AFTER SERVICE

IF UPON ASSEMBLY OF YOUR SERIES 7 + 11 PARTS KIT, YOU ARE UNABLE TO OBTAIN SATISFACTORY OPERATION, YOU MAY SEND YOUR ASSEMBLED KIT TO SIMPLE SIMON FOR REPAIR OF ERRORS. A FLAT RATE OF $29.95 WILL BE CHARGED, INCLUDES PARTS AND LABOR. ADD $3.45 FOR SHIPPING AND HANDLING, U.S.A.

SEPARATELY, PART KITS COST, FOR 7 + 11

VT1	VARACTOR TUNER MODEL UES-A55F	$34.95	11L4	COIL KIT L1,L2,L3,L4 4 ea.	$5.00
CB1	PRINTED CIRCUIT BD. PRE-PUNCHED	17.95	121CS	IC SOCKETS SOLDER TAIL	1.95
TP7	P.C.B. Mount Trimmer POTENTIOMTRS.	5.95	13SR	SPEAKER ENCLOSURE W/SPKR. Prepunched back panel for mount Circuit Board and Terminals	14.95
FR35	RESISTORS 1/4w 5% TOL. 35 pieces	3.95			
PT1	POWER TRANSFORMER	5.95			
PP2	POTENTIOMETERS P.M. + KNOBS	5.95	14MISC	Fuse Holder, DPDT Switch AC Cord, Hook Up Wire, Shielded Wire Mounting Hardware. Antenna Terminals, Fuse, AC Line Cord, etc.	9.95
SS14	IC's, DIODES, REGULATORS & H.S.	29.95			
CE9	ELECTROLYTIC CAPACITOR KIT	4.95			
CC35	CERAMIC DISK CAPACITOR KIT 35 ea.	6.95			
OCT	VAR. TRIM CAP. 5 - 65 PFD 7 ea.	5.25	15A1	Instructions	N/C



TERMS / SHIPMENT

QUICKEST METHODS: VISA, MASTER CHARGE, USA POSTAL MONEY ORDER, BANK CABLE TRANSFER AND WESTERN UNION. MERCHANDISE SHIPPED WITHIN TWO WORKING DAYS. PAYMENT BY BANK CASHIERS CHECK OR BANK M.O. ALLOW 7 DAYS FOR SHIPPING. PERSONAL, OUT OF STATE CHECK WILL BE HELD FOR 20 WORKING DAYS. VISA OR MASTER CHARGE -- BE SURE TO INCLUDE CREDIT CARD NUMBER AND EXPIRATION DATE.

ADD 5% FOR KITS SHIPPED U.P.S., INCLUDES PACKING, HANDLING. UNDER 1 LB SHIPPED BY POST OFFICE.

mple Simon is prepared to ship/supply large quantities at discount prices. Send for Dealer's Price List, and ease include Company Name, Business Address and Type of Business.

...Y OF OPERATION, TV DECODER KIT 7 + 11

THE UHF TUNER'S (IF) FREQUENCY IS APPROXIMATELY 63MHz (VHF CHANNEL #3) AND THE TWO-CHIP IF CIRCUIT IS ALSO TUNED TO CHANNEL #3. Z7 (MC-1350) IS A MULTISTAGE IF CIRCUIT CHIP. L2, THE INTERSTAGE TRANSFORMER BETWEEN Z7 AND Z8 IS USED TO COUPLE THE SIGNALS BETWEEN THE TWO CHIPS AND ALSO TO PROVIDE A LOW IMPEDANCE OUTPUT SIGNAL TO THE TV SET ANTENNA TERMINALS. Z8 (MC-1330) IS THE SYNCHRONOUS DETECTOR CHIP WHICH DEVELOPS THE VIDEO SIGNAL. L3 IS ALSO TUNED TO 63MHz. THE OUTPUT OF Z8, CONTAINING THE 15KHz SINE WAVE ENCODING SIGNAL AS WELL AS THE VIDEO, IS APPLIED TO THE 3 OP AMPS, (TWO SECTIONS OF Z2 AND ONE OF Z1). THE FIRST TWO OP AMPS ARE USED AS STRAIGHT AMPLIFIERS WHILE THE THIRD (Z1) IS USED AS AN ACTIVE FILTER. THE AMPLIFIED AND FILTERED 15KHz SINE WAVE COMPONENT IS APPLIED BACK TO PIN #5 OF Z7, THE AGC INPUT. R5 SETS THE DC LEVEL OF THE SIGNAL APPLIED TO PIN #5, WHILE C-3 COUPLES THE SINE WAVE AC COMPONENT. R-7 CONTROLS THE AMPLITUDE OF THE 15KHz SINE WAVE APPLIED TO THE AGC LINE. R8 CONTROLS PHASE, AND R-36 PICTURE CLARITY/CONTRAST. THE 4.5 MHz SOUND IF INTERCARRIER SIGNAL IS ALSO TAKEN FROM THE OUTPUT OF THE Z8 CHIP AND FED TO Z9. L1 and L4 ARE TUNED TO 4.5 MHz. L4 IS THE INPUT TUNED CIRCUIT AND 11 THE AUDRATURE COIL. Z9 IS A TELEVISION TYPE 4.5 MHz FM DETECTOR. WIDE BAND AUDIO IS COUPLED THROUGH C-21, TO PIN #2 OF Z4, A LM 565 PHASE, LOCK-LOOP DETECTOR. R10 ADJUSTS THE VOLTAGE CONTROLLED OSCILLATOR TO 62.5KHz TO DEMODULATE THE SUB-CARRIER AUDIO, WHICH IS THEN FED TO THE Z1 OP AMP THROUGH A LOW PASS FILTER. THE OUTPUT OF Z1 IS APPLIED TO THE VOLUME CONTROL R9. THE CENTER ARM OF THE VOLUME CONTROL IS CONNECTED TO Z3, AN LM-386-3 AUDIO AND AMPLIFIER CHIP. THE OUTPUT OF THIS AMPLIFIER IS CAPACITIVELY COUPLED TO AN 8 OHM SPEAKER. POWER SUPPLY IS A STRAIGHT FORWARD BRIDGE RECTIFIER. Z5 IS A 15 VOLT REGULATOR, AND Z6 IS 8V. THE COMBINATION OF R24 AND R25 DIVIDES THE APPROXIMATELY 15 VOLT POWER SUPPLY IN HALF TO SUPPLY, SAY, 7.5 VOLTS FOR USE BY THE OP AMPS.

URGENT ... NOTE CAREFULLY... AVOID COSTLY MISTAKES ... URGENT ... URGENT

NOTES: TUNING OF VARIABLE TRIMMER CAPACITORS: C43,44,45,46,47,49 and 50, DO NOT USE A STEEL SCREWDRIVER. USE OF CONSTRUCT A SCREWDRIVER MADE OF PLASTIC, WOOD OR ALUMINUM TO REDUCE MIS-TUNING AT RF FREQUENCIES. AN EXCELLENT WAY TO MAKE A SCREWDRIVER OF ALUMINUM IS TO USE A DISCARDED SODA POP OR BEER CAN TAB, BUT DON'T SPILL YOUR BEER.

1.
2. C-33 NEW LOCATION: INSTALL ACROSS LOUDSPEAKER TERMINALS TO ELIMINATE AUDIO DISTORTION AT LOW SOUND LEVELS.
3. BEFORE ALIGNING, SET ALL VR CONTROLS TO MID-RANGE, EXCEPT R-7, SET CCW.
4. POINT PAINTED AND MARKED IN WHITE, BOTTOM OF PRINTED CIRCUIT BOARD, CUT AND INSTALL 16 OHM RESISTOR FOR PROPER OPERATION ON CHANNEL 44. NO MARK, INDICATES NO CONVERSION REQUIRED.
5. SOME STV BROADCAST STATIONS (VIZ: CHICAGO) HAVE A HIGHER AUDIO FM MODULATION RATE THAN, SAY, LOS ANGELES. THIS HIGHER RATE MAY CAUSE THE VIDEO OUTPUT (PICTURE TO JIGGLE WITH THE SOUND'S AUDIO PEAKS). THE PROBLEM CAN BE ELIMINATED BY REMOVING C-30 100 PFD DISK CAPACITOR AND INSTALLING C-50 5-65 PFD VARI-TRIM CAPACITOR IN PLACE OF C-30. KNULL (ADJUST) C-50 FOR LEAST VOICE MODULATION OF VIDEO OUTPUT. C-50 IS INCLUDED IN YOUR KIT. ET AL, OVER MODULATION BY STV ENGINEERS. (Additional notes on Page 4.)

SIMPLE SIMON TV DECODER KIT 7 + 11

PARTS LIST 1

1	R1	6.8K ohm	1/4 watt Blue, Grey, Red
5	R16,17,18,23,39	1K ohm	1/4 watt Brown, Black, Red
8	R3,19,26,32,33,34,37,38	4.7K ohm	1/4 watt Yellow, Violet, Red
1	R11	91 ohm	1/4 watt White, Brown, Black
1	R12,~~15~~	22K ohm	1/4 watt Red, Red, Orange
5	R13,~~24~~,25,31,~~15~~	10K ohm	1/4 watt Brown, Black, Orange
2	R14,28	16K ohm	1/4 watt Brown, Blue, Orange
2	R20,21	2.2K ohm	1/4 watt Red, Red, Red
1	R22	1.8K ohm	1/4 watt Brown, Grey, Red
1	R27	9.1K ohm	1/4 watt White, Brown Red
1	R35	8.2K ohm	1/4 watt Grey, Red, Red
4	R40,41,42,43	270 ohm	1/4 watt Red, Violet, Brown
	R4	20K ohm	P.C. Mount Pot. P20K
	R5,6,7,~~8~~,10	(10K)	P.C. Mount Pot's. P10K
	R9 + (S1)	10K	P.C. Mount Pot. with On-Off Switch + Knob
	R36	1K ohm	P.C. Mount Pot. P1K
	R2	1K ohm	Panel Mount Pot. Lin. Taper, with knob

1	C1	1500-2200 mfd	Electrolytic Capacitor (35-50 Mfd)
2	C2-34	4.7 mfd	Electrolytic Capacitor
1	C3	1 mfd	Electrolytic Capacitor MARKED
2	C4,10	.01 103 mfd	Capacitor ..... .01M CERAMIC DISK
1	C5	.0047 mfd	Capacitor ..... 472 OR 472"
1	C6	470 mfd	Electrolytic Capacitor
10	C7,8,9,16,21,35,33,36,37,38	.1 104 mfd	Capacitor Ceramic .....104Z " or 104 US1
4	C11,12,42,32	.047 mfd	Capacitor .....473 "
8	C13,15,22,23,27,29,40,41	.001 102 mfd	Capacitor .....102 "
4	C14,20,26,39	10 Mfd	Electrolytic Capacitor
2	C17,18	222 .0022 Mfd	Capacitor .... .0022 Mylar or .0022K100
1	C19	.033 333 Mfd	Capacitor .... 0.033 Ceramic Disk 0.0033 F
2	C24,28	10 100 pf	Capacitor .... 10 OR 10K " or,,10
1	C25	470 471 pf	Capacitor .... 47 OZ OR470 or 470 OM
	C30 not used	~~100 pf~~	~~Capacitor .... 101 OR 101~~
7	C43,44,45,46,47,49,50	5-65 pf	Var. Trimmer Capacitor
1	C31	270 pf	Capacitor .... 47 Plus 221 Connected Parallel
1	C48	.1 mfd	Capacitor Paper 1,500 W.V. DC

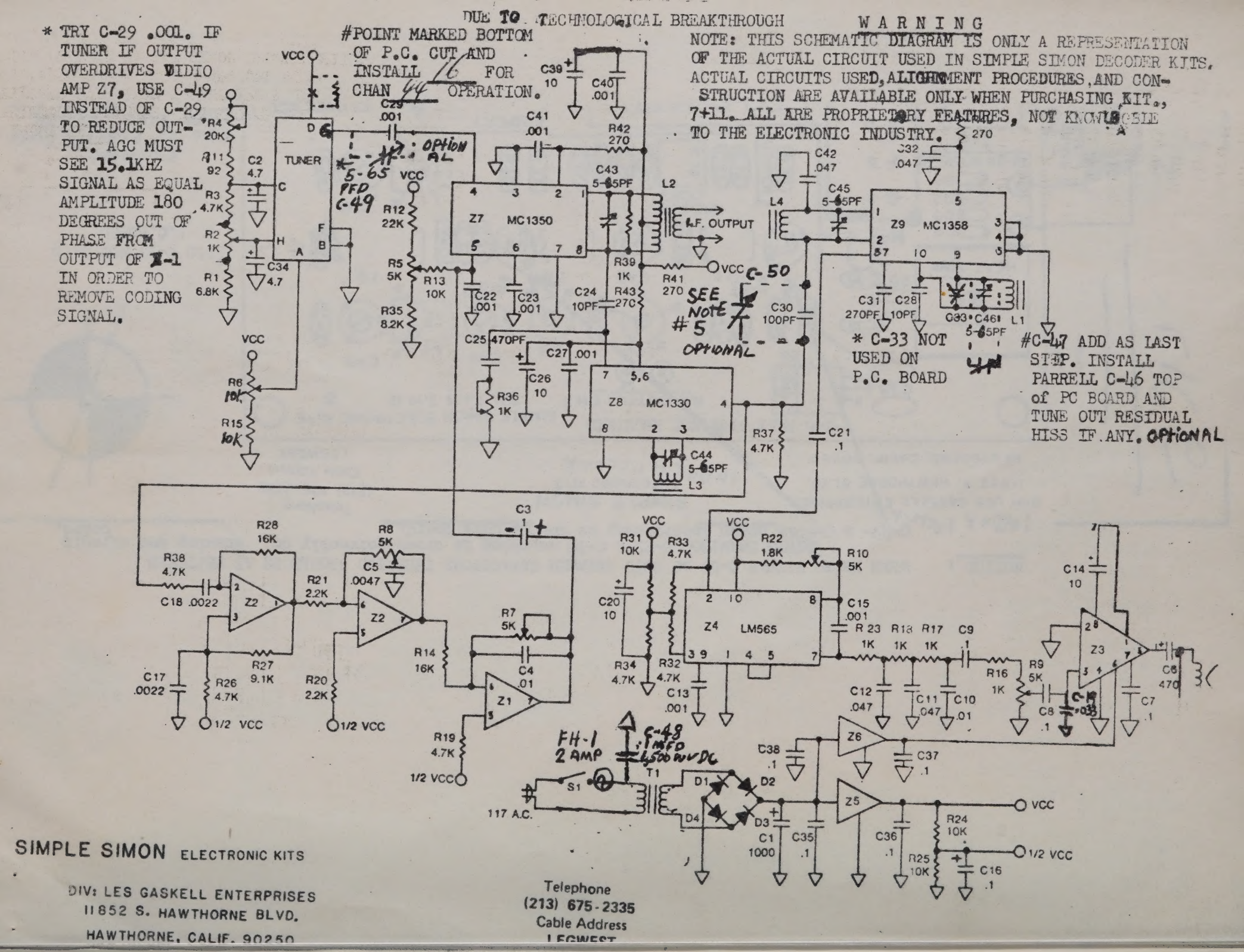
D1,2,3,4	IN4001	Diodes
Z1,2	MC1458	Operational Amplifier
Z3	823 LM386-3	Amplifier Audio
Z4	989 LM565	P.L.L.
Z5	LM7815	Voltage Regulator
Z6	LM7808	Voltage Regulator

Z7	746 MC1350	IF Amplifier ECG 712
Z8	747 MC1330	Video Detector
Z9	712 MC1358	Audio Detector
S1	Switch	S1 is on the back of the vol. cont. R-9
T1	18-35 VAC 1 Amp. Transformer (115 VAC Pri.)	
L1, 4	18uh Choke Factory Wound	
L3	8 turns of #26 wire on a T30-12 toriod (Green)	
L2	8 turns of #26 wire, center tapped and 3 turns of #26 as the secondary on T30-12 toriod (Green). Note schematic drawing.	

FH-1	Fuse Holder Panel Mount
FS-1	1 Amp 3AG fuse
HS-1	Heat Sink for Z5 Regulator
IS-1	Set of Instructions
IC-8	8 pin inlay solder tail IC sockets 5 ea.
IC-14	14 pin inlay solder tail IC sockets 2 ea.
LC-1	A.C. Power Cord 6 Ft.
N-1	6/32 Nuts 10 ea.
PCB-1	Printed Circuit Board
S-1	8/32 Nuts 12 ea.
S-2	8/32 X 2-1/2" Screws P.C. Board Mount 4 ea.
S-3	6/32 X 1/2" Screws Terminal Mount 10 ea.
SPKR-1	Speaker Enclosure with Speaker
SW-1	DPDT Antenna Changeover Switch
TM-1-2-3	Antenna Terminals
VT-1	Varactor Tuner P.C.B. Mounted
WA-1	2 FT. 300 ohm lead in
WA-2	3 FT. Hook Up Wire stranded
WA-3	2 FT. Speaker Wire stranded
WA-4	6 FT. #21 Rosin Core Solder

NOTES:(continued)

6. 7 + 11 UHF Antenna input is 300 ohm. Use a 75 ohm to 300 ohm matching transformer not twin lead.
7. It is strongly recommended that a separate UHF Antenna with 75 ohm coax be used.
8. Observe POLARITY on all electrolytic capacitors!!!
9. Observe DIRECTION on all IC's--Match up dot or indent to the dot on the circuit board.
10. Z5 must have a heat sink. It is normal for Z5 to run warm.
11. Grey band on the 1N4001 diodes matches the black band on the board.
12. DO NOT CONNECT THE OUTPUT OF THIS UNIT TO ANTENNA OF ANY TYPE !!!
13. Output of unit is 75 ohm and is connected to the VHF input on the TV, and the TV is tuned to CH. 3.
14. If TV input is 300 ohm, a matching transformer may or may not be needed.
15. All resistors are ± 5%. All capacitors are ± 20% or better.
16. Tuner is modified. WHITE WIRE REAR OF TUNER CONNECTS TO TERMINAL H, P.C. Board.
17. Use of IC sockets is strongly recommended. Included with kit.
18. T-1, S-2, R-2, R-9, SW-1, TM-1,2,3, FH-1 & Printed Circuit Board 2CBI all mount to speaker box, rear panel.
19. Be sure to solder all four tuner mounting studs to ground in order to complete the circuit.
20. DON'T FORGET TO INSTALL JUMPER LEADS J-1, J-2, and J-3.


* TRY C-29 .001. IF TUNER IF OUTPUT OVERDRIVES VIDIO AMP Z7, USE C-49 INSTEAD OF C-29 TO REDUCE OUTPUT. AGC MUST SEE 15.1KHZ SIGNAL AS EQUAL AMPLITUDE 180 DEGREES OUT OF PHASE FROM OUTPUT OF X-1 IN ORDER TO REMOVE CODING SIGNAL.
DUE TO TECHNOLOGICAL BREAKTHROUGH
#POINT MARKED BOTTOM OF P.C. CUT AND INSTALL 16 FOR CHAN 4 OPERATION.
WARNING
NOTE: THIS SCHEMATIC DIAGRAM IS ONLY A REPRESENTATION OF THE ACTUAL CIRCUIT USED IN SIMPLE SIMON DECODER KITS. ACTUAL CIRCUITS USED, ALIGNMENT PROCEDURES, AND CONSTRUCTION ARE AVAILABLE ONLY WHEN PURCHASING KIT., 7+11. ALL ARE PROPRIETORY FEATURES, NOT KNOWLEDGE TO THE ELECTRONIC INDUSTRY.
* C-33 NOT USED ON P.C. BOARD
#C-47 ADD AS LAST STEP. INSTALL PARRELL C-46 TOP of PC BOARD AND TUNE OUT RESIDUAL HISS IF.ANY. OPTIONAL
SEE NOTE #5 OPTIONAL
C-50
C-48 .1 MFD 4500 WV DC
FH-1 2 AMP
117 A.C.
VCC
1/2 VCC
I.F. OUTPUT
TUNER
Z1
Z2
Z3
Z4 LM565
Z5
Z6
Z7 MC1350
Z8 MC1330
Z9 MC1358
SIMPLE SIMON ELECTRONIC KITS
DIV: LES GASKELL ENTERPRISES
11852 S. HAWTHORNE BLVD.
HAWTHORNE, CALIF. 90250
Telephone
(213) 675-2335
Cable Address
LEGWEST

NOTICE : WHEN USING EITHER C-49 or C-50 TRIMMER CAPACITORS INDEXING SHOULD BE AS DEPICTED ON THIS DRAWING. C-29 & C-30 mounting is drawn correctly on drawing and circuit board. C-49- & C-50 is drawn incorrectly on the Circuit board.

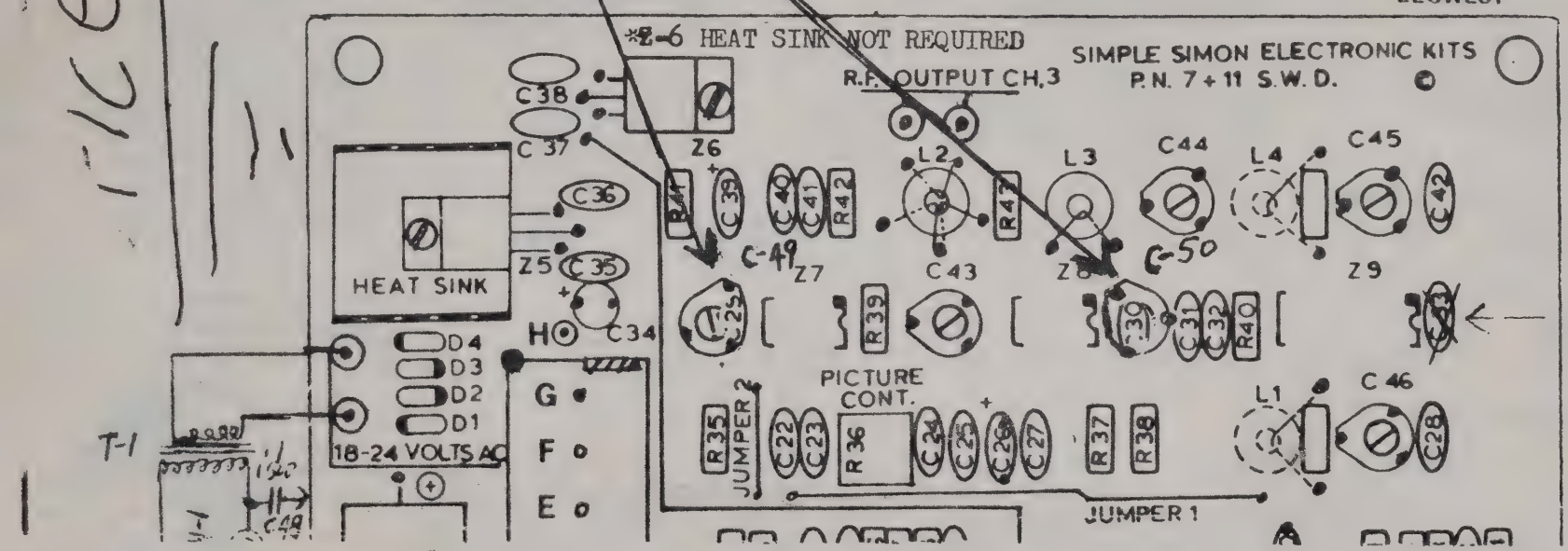
INDEX 10 CLOCK

INDEX 11 O'CLOCK

DIV: LES GASKELL ENTERPRISES
11852 S. HAWTHORNE BLVD.
HAWTHORNE, CALIF. 90250

SIMPLE SIMON
ELECTRONIC KITS

Telephone
(213) 675-2335
Cable Address
LEGWEST



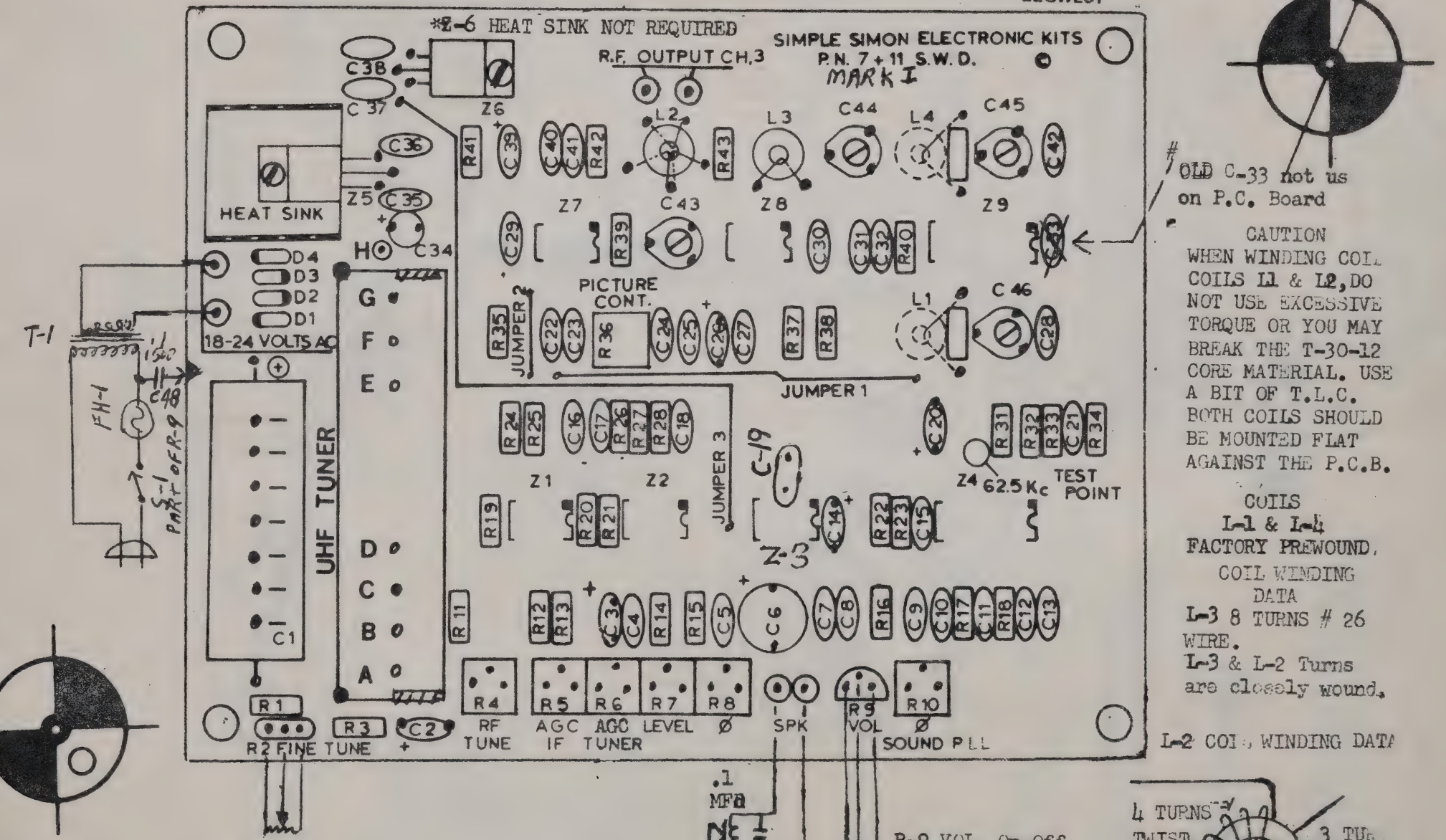
OLD C-33 NOT USED ON P.C. BOARD

CAUTION
T30-12 FERRITE DUST CORE. USE TENDER

DIV: LES GASKELL ENTERPRISES
11852 S. HAWTHORNE BLVD.
HAWTHORNE, CALIF. 90250

SIMPLE SIMON
ELECTRONIC KITS

Telephone
(213) 675-2335
Cable Address
LEGWEST



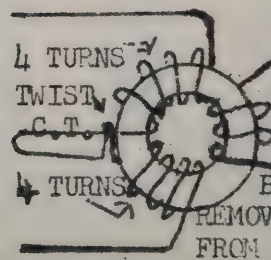
OLD C-33 not us on P.C. Board

CAUTION
WHEN WINDING COIL COILS L1 & L2, DO NOT USE EXCESSIVE TORQUE OR YOU MAY BREAK THE T-30-12 CORE MATERIAL. USE A BIT OF T.L.C. BOTH COILS SHOULD BE MOUNTED FLAT AGAINST THE P.C.B.

COILS
L-1 & L-4
FACTORY PREWOUND.

COIL WINDING DATA
L-3 8 TURNS # 26 WIRE.
L-3 & L-2 Turns are closely wound.

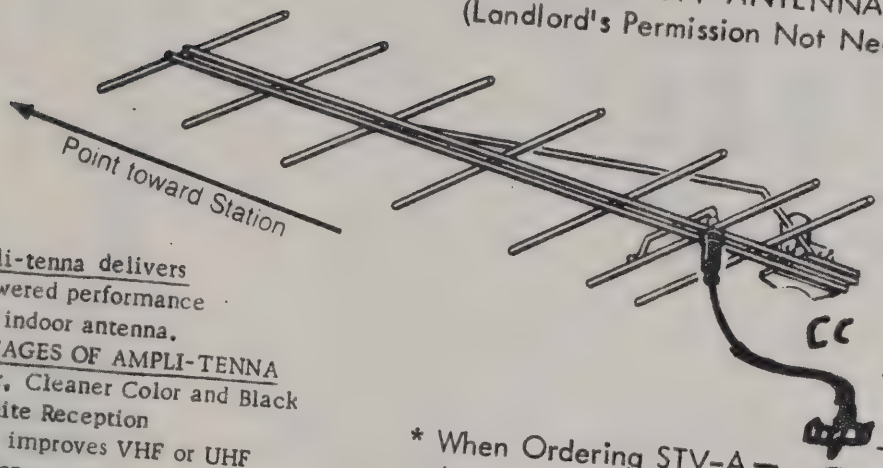
L-2 COIL WINDING DATA



BE SURE TO REMOVE ENAMEL FROM LEADS OF THE COILS.

SIMPLE SIMON
Electronic Kits

INDOOR UHF STV ANTENNA SYSTEM
(Landlord's Permission Not Necessary)



11.5 Db gain
STV - A $ 9.95 e

PREFABRICATED COAX CABLE WITH F-59 CONNECTOR

CC - 3FT $1.95; CC- 6FT $2.45

CC - 12 FT $3.45; CC - 20FT $3.

Ampli-tenna delivers
High-Powered performance with any indoor antenna.

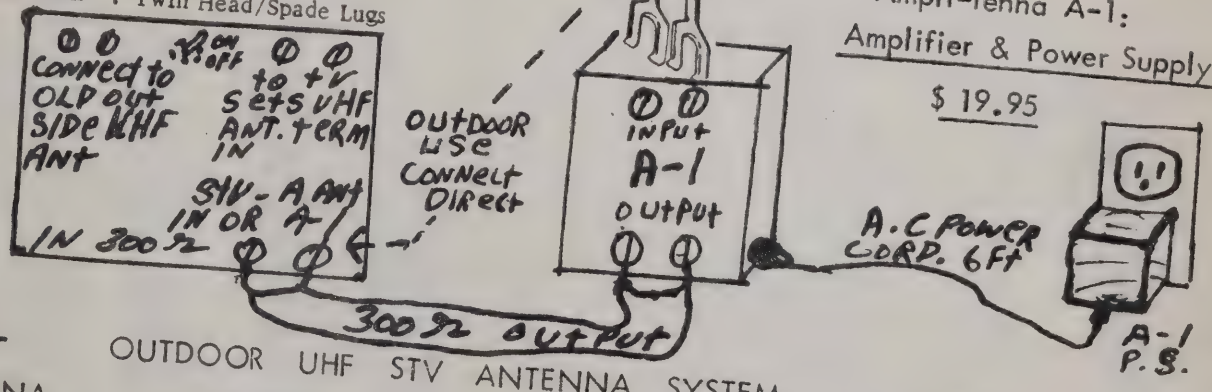
ADVANTAGES OF AMPLI-TENNA
- Sharper, Cleaner Color and Black and White Reception
- Greatly improves VHF or UHF Reception
- Reduces "Snow"
- Actually Brightens Picture
- Brings in Cleaner FM/FM Stereo Sound

AMPLI-TENNA FEATURES
- Advanced Solid State Amplifier for UHF, VHF or FM
- UL Approved, Low-Voltage, AC Power Supply
- Excellent Signal-To-Noise ratio
- Extremely Accurate Impedance Match (VSWR 2:1)
- Delivers up to 15dB Gain
- Compact Easy-to-Mount Units
- 300 Ohm Input/Output
- Twin Head/Spade Lugs

* When Ordering STV-A — Antenna, advise UHF STV Channel for your area.
LENGTH ABT 27"

75 to 300 ohm Mt-1:
Matching Transformer
Low Loss for UHF $1.45 ea.

Ampli-tenna A-1:
Amplifier & Power Supply
$ 19.95



11.5 Db gain
STV-A ANTENNA $9.95 ea.

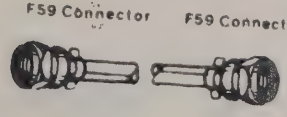
OUTDOOR UHF STV ANTENNA SYSTEM

MT-1 MATCHING TRANSFORMER $1.45 ea.

CC—25 FT. Prefab Cable with 2 ea. F-59s	4.40
CC—50 FT. " " " " "	7.95
CC—100 FT. " " " " "	13.95

* Extension Connector for F-59s (F-81C) .75

COAXIAL JUMPER CABLE
MATV APPLICATION RG59/U CABLE



Mail Order Shipping and Ordering
Antenna accessories sold and shipped only.
When ordering STV-A — Antenna, etc.
Add $ 1.95 for shipping and handling for items on this page.

Terms: VISA - Mastercharge
Check or Money Order Payable to:
SIMPLE SIMON ELECTRONIC KITS
11850 S. Hawthorne Blvd.
Hawthorne, California 90250

SIMPLE SIMON
ELECTRONIC KITS

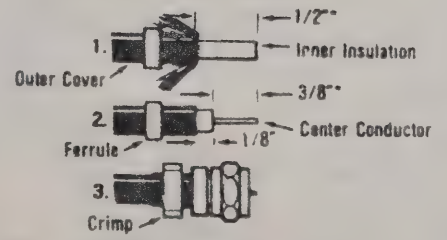
INSTRUCTIONS UHF 11.5 Db gain STV ANTENNAS

WARNING:

INSTALLATION OF THIS ANTENNA NEAR POWER LINES IS DANGEROUS. FOR YOUR SAFETY, FOLLOW THE INSTALLATION INSTRUCTIONS.

STEP 1. Slide boot over downlead and install connector as shown below. Attach downlead to antenna jack.

INSTALLING COAX CABLE ON F-59 AND F-56 CONNECTORS



STEP 1. Strip outer cover back 1/2"* from end of cable. Slide ferrule onto cable and fray braid back as far as outer cover will allow.

STEP 2. Trim braid close to outer cover and remove 3/8"* of inner insulation **being careful not to nick center conductor**. Make sure no foil or braid can touch center conductor.

STEP 3. Slide connector tip between braid and inner insulation (braid and foil on foil shield cable) and push connector on cable as far as it will go. Slide ferrule into place and crimp with pliers or crimping tool. **Do Not** crush cable out-of-round.

*If installing in very hot weather increase these dimensions 1/8".

LIMITED WARRANTY

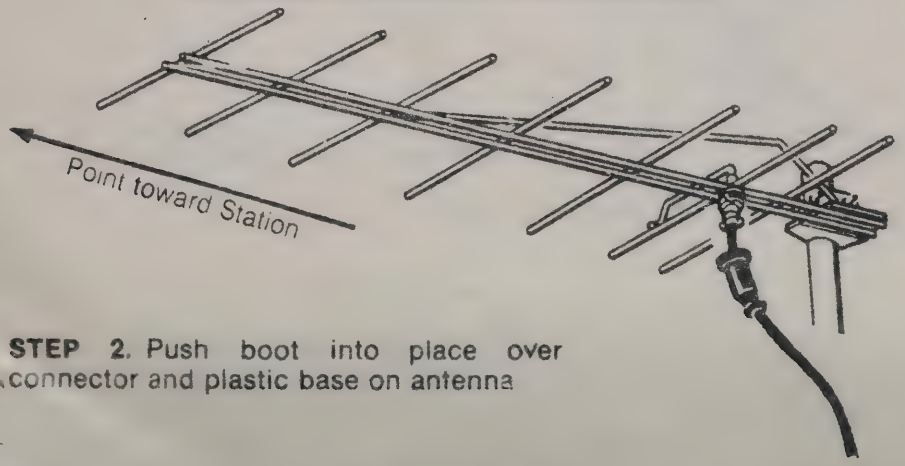
[redacted] offers a warranty to the user of its product for ninety (90) days from the date of original installation. Should the product prove defective in materials or workmanship during the warranty period it will be repaired or replaced without charge.

Not covered under warranty will be occurrences over which [redacted] has no control. Examples would be vandalism, improper installation, or damage caused by the elements or other outside agents. Nor will the warranty cover any incurred costs in removals, shipping, or reinstallation of any product.

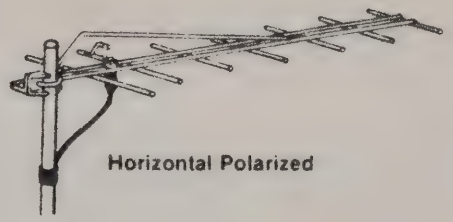
The user should contact the outlet from which the product was purchased with regard to defective equipment.

The warranty is made to users within the U.S.A. and Canada and no warranty is made, express or implied, to purchasers located elsewhere.

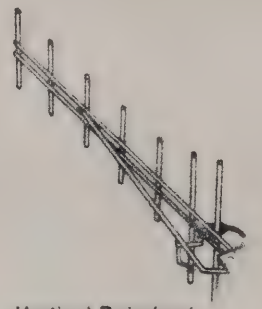
The above is in lieu of all other warranties, express, implied or statutory, and [redacted] neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with said equipment.



STEP 2. Push boot into place over connector and plastic base on antenna.



Horizontal Polarized



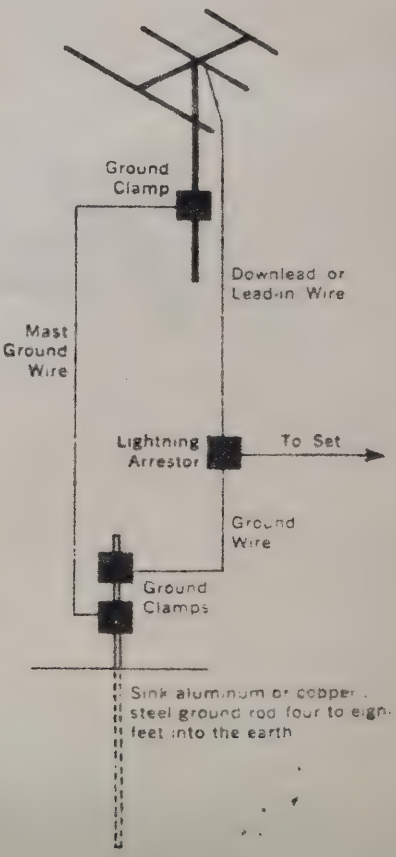
Vertical Polarized

STEP 3. Mount antenna on mast with U-bolt provided making sure antenna is oriented to same polarity as transmitting antenna. Point toward station and tighten U-bolt.

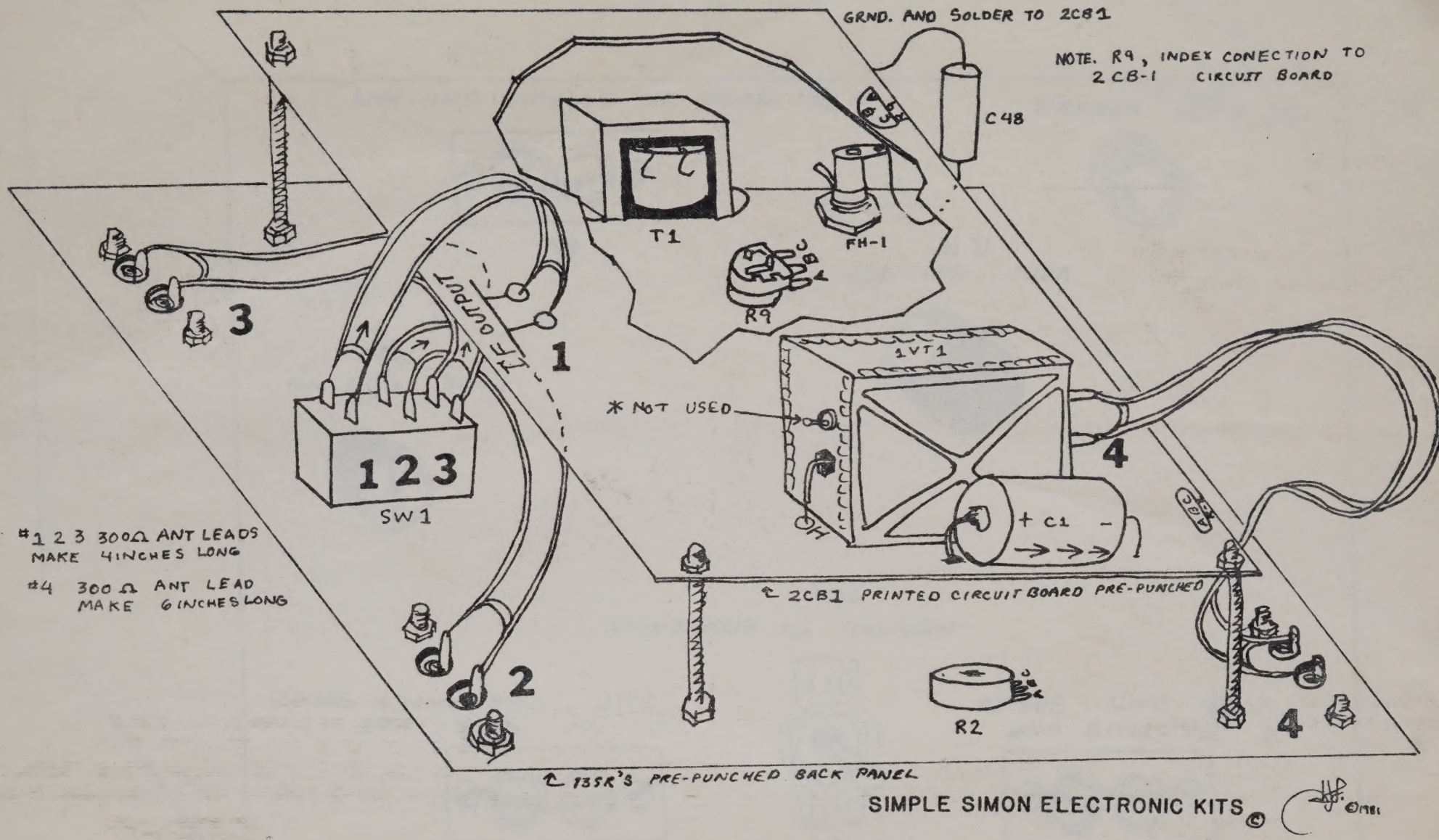
STEP 4. Tape downlead to mast and run cable to TV set. Avoid sharp bends in cable.

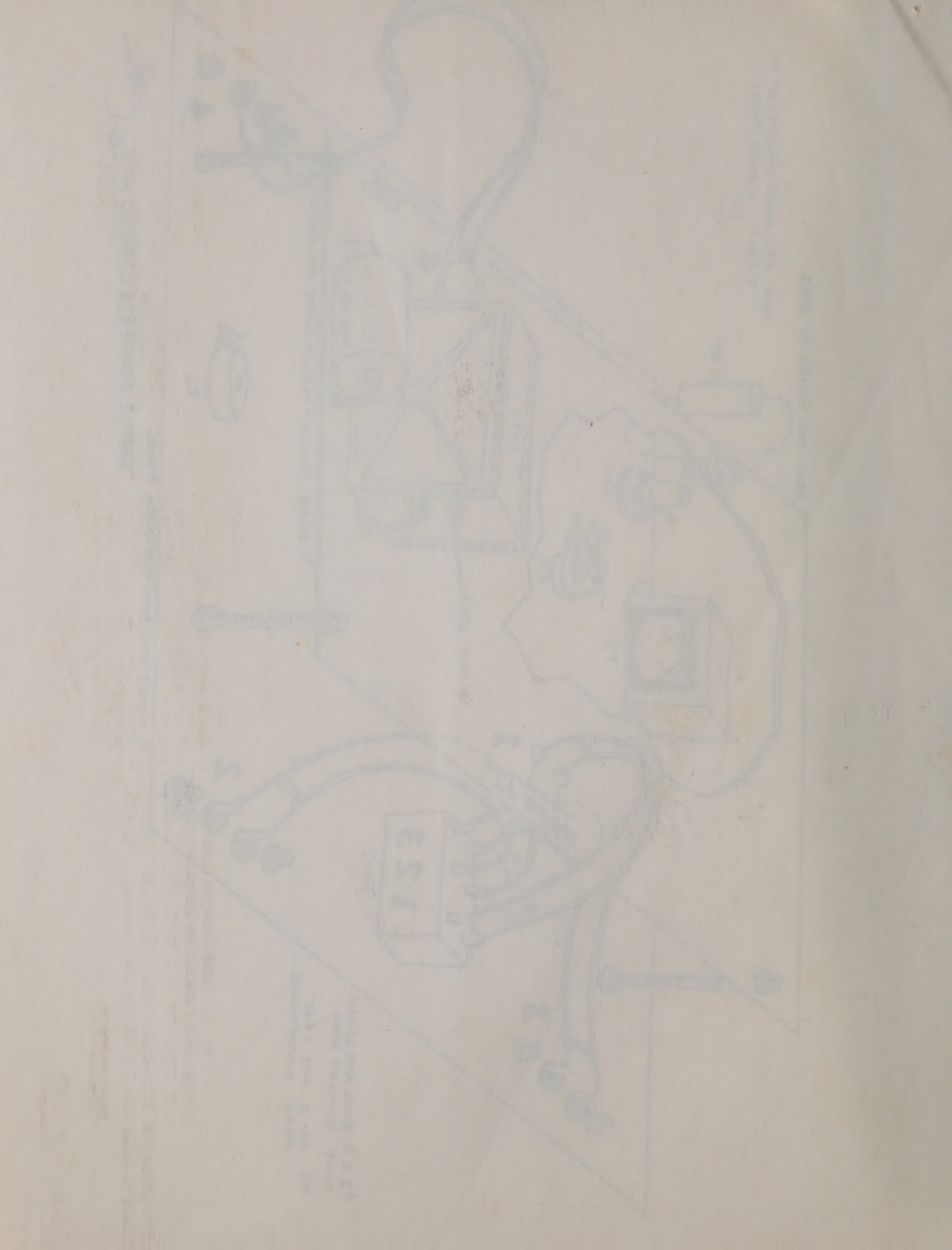
HOW TO PROVIDE LIGHTNING PROTECTION FOR YOUR TV ANTENNA AND SET

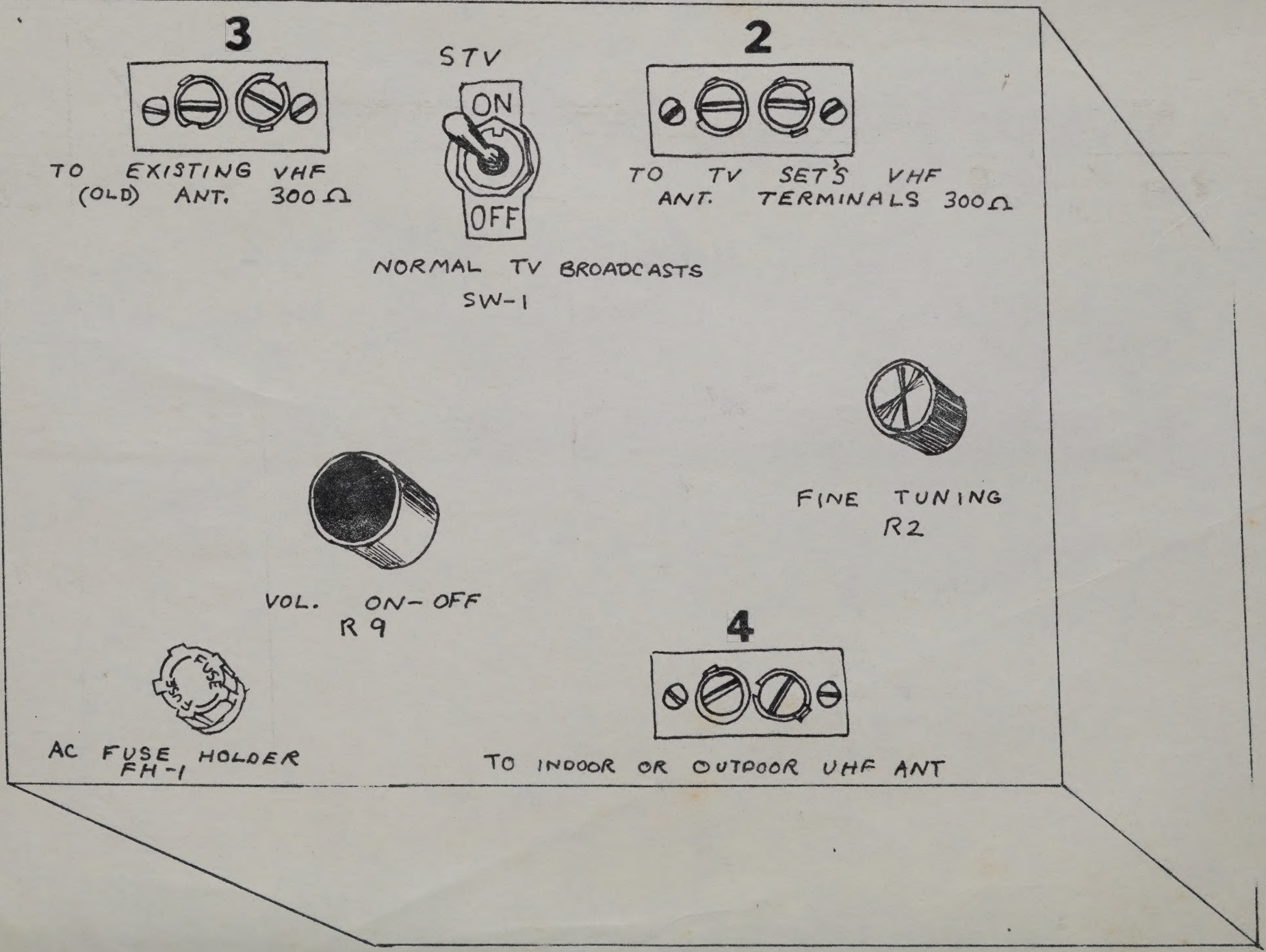
- Mount lightning arrestor as close as possible to where lead-in enters house.
- Ground wires for both mast and lead-in should be copper or aluminum wire, number 8 or larger.
- Lead-in wire from antenna to lightning arrestor and mast ground wire should be secured to house with standoff insulators, spaced from four to six feet apart.
- In the case of a "ground up" antenna installation, it may not be necessary to ground the mast if the mast extends four or more feet into the earth. Consult your TV service man for proper depth in your area.



SIMPLE SIMON ELECTRONIC KITS
DIV: LES GASKELL ENTERPRISES
11850 S. HAWTHORNE BLVD.
HAWTHORNE, CALIF. 90250


GRND. AND SOLDER TO 2CB1
NOTE. R9, INDEX CONECTION TO 2 CB-1 CIRCUIT BOARD
C48
T1
FH-1
R9
1VT1
* NOT USED
1 2 3
SW1
TO OUTPUT
+ C1 -
#1 2 3 300Ω ANT LEADS MAKE 4INCHES LONG
#4 300Ω ANT LEAD MAKE 6INCHES LONG
2CB1 PRINTED CIRCUIT BOARD PRE-PUNCHED
R2
135R'S PRE-PUNCHED BACK PANEL
SIMPLE SIMON ELECTRONIC KITS ©





SIMPLE SIMON ELECTRONIC KITS ©

©1981